

## ABSTRACT OF THE DISCLOSURE

The present invention improves the VT filter performance for moving pictures by deinterlacing. A VT filter 102 receives data of a deinterlacing target field (field #n) and data of forward and backward fields thereof (fields #n-1 and #n+1). A difference operation unit 104 receives data of two frames including the field #n, and calculates the sum of the absolute values of differences between these frames. The filter coefficient setting unit 103 decides a filter coefficient on the basis of the sum of the absolute values of the differences. The VT filter unit 102 subjects the inputted pixels to the filtering using the filter coefficient to generate an interpolation pixel, and outputs the generated interpolation pixel. A double-speed converter 105 composes the interlaced image and the interpolation pixel to convert the frame rate to be doubled, and outputs the converted image as a progressive image.

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